

STATEMENT OF WORK
Installation and Commissioning of Residential Generators
American Embassy Suva, Fiji

- 1.0 **INTRODUCTION.** This is a firm fixed price contract for the installation of four (4) residential generators. As listed in section 6.0 of this work statement the US Embassy will supply a new CAT Olympian Prime Power Generator Set DE50-EO Rated 50KVA, 415/240, Three-Phase, Diesel, 50 HZ, with day tank for 20hrs(57.9gal) for contractor installation. Additionally, the Embassy will provide the associated Automatic Transfer Switch, 63A, IPA54 Protection, 400/230V for contractor installation. A bidder's walk-through of the properties identified will be held on February 12th. Please contact **Ellen Moses on 3314466** Email: MosesEE@state.gov for details on the walk-through. All cost proposal packages are due to Ellen Moses no later than 5 pm on Monday February 29th, 2016.
- 2.0 **PROPOSAL REQUIREMENTS.** The package evaluation will be based on lowest price, technically acceptable. The proposal package must include all of the following to be considered for this service:
- a) Company Name
 - b) Total price, inclusive of all material, labor, transport, and fees
 - c) Company Director or Project Foremen for this work statement, include email and telephone number.
 - d) FEA Electrical Contracting License.
 - e) Technicians FEA Electrical Wireman's License
 - f) Commissioning Agent – Certified Caterpillar Service Technician
- 3.0 **SCOPE OF WORK:** The intent of this work scope is to install four US Embassy supplied residential generators by licensed electrical technicians and commissioned by a certified Cat generator service technician to meet local electrical codes and manufacturer warranty requirements. The installation contractor and certified CAT sub-contractor must ensure the manufacturer standard one (1) year warranty which commences at 'start up' is *NOT* invalidated through non-regulatory and non-manufacture installation. The US Embassy will disconnect and remove the old generator set, and set in place the new generator and ATS for contractor installation and start-up.
- a) Per the schedule provided, the Contractor shall inspect and verify 'Factory Test Certificate' prior to making any electrical cable connections. Verification of 'Factory Test Certificate' shall include filling the generators with 200l of diesel fuel and manufacturer recommended radiator coolant and engine oils are filled to the recommended levels, also make sure that all batteries are fully charged if need be replace them with new ones
 - b) The Contractor shall install Automatic Transfer Switch in designated location at each site.
 - c) The Contractor shall supply for each residence with Three (3) Phase Clipsal or equal 3 phase (3pole) 80amps breaker, mounting to be determined on site.
 - d) The contractor shall provide for each residence a total of 100m of 16 mm² 4 core and earth cables for connection between generator and Automatic Transfer Switch.
 - e) The contractor will be responsible for removing existing generator cables 6 mm² and replacing with 100 mtrs 16mm² 4 core and earth and 100m of 1.5mm² 6 core control cable between generators for all the residences and making all terminations at the generator and Automatic Transfer Switch (ATS).
 - f) The Contractor shall wire and install generator and associated Automatic Transfer Switch strictly in accordance with the manufactures instructions and recommendations.
 - g) The Contractor in making the connection from the Automatic Transfer Switch to the residence Main

FEA Switchboard is responsible for balancing the loads on the 3 phase generator and the main FEA board.

- h) The Contractor shall on completion of cabling/wiring connection verify the installation by a Certified Cat Service Technician
- i) The Contractor upon Certification by CAT Service Technician shall conduct a 'Start-up run' and complete commissioning document. The commissioning document must be submitted with final invoice for payment.
- j) The contractor is responsible for removing all trash and debris associated with the installation of the new generator and ATS.
- k) The contractor shall verify or install the generator grounding system ensuring that it is less than 25 ohms as per SAA wiring rules.

4.0 TABLE - PLANNED DECOMMISSION AND INSTALLATION DATES: Cable terminations and start-up of each generator must occur on the date shown below between the hours of 8 AM to 5 PM. Initial trenching and laying of new conduit and wiring can begin the Monday prior to the Wednesday installation date for each site listed. In the event of in-climate weather the site installation will be rescheduled to the following day. Upon contract award an Embassy Representative for this project will be provided. All project coordination and site access is to be coordinated with the US Embassy Representative for this contract.

| | Residence | FEA Supply | Existing Generator (De-commission) | New US Govt. supplied generator | Planned Installation Date: |
|---|-------------|------------|------------------------------------|---------------------------------|----------------------------|
| 1 | 1 ALLYDACE | 3-phase | 33KVA | 50 KVA -3phase | 04/06/2016 |
| 2 | 9 NAGASIMA | 3-phase | 33KVA | 50 KVA -3phase | 04/13/2016 |
| 3 | 16 CLARK | 3-phase | 13KVA | 50 KVA -3phase | 04/20/2016 |
| 4 | 48 RESVIOUR | 2-phase | 13KVA | 50 KVA -3phase | 04/27/2016 |

5.0 Contractor Provided Material (for each site location).

- a) 100.00m of 16 mm² 4 core.
- b) 100.00m of 1.5mm² 6 core control cable.
- c) Associated conduits for cabling
- d) 1 total breaker; Clipsal or equal 3-phase (3pole) 80amps breaker for each residence
- e) 1000 liters of diesel fuel; 200liters of Diesel fuel for each generator installation.

6.0 US Embassy Provided Material/Labor

- a) Cat 50 KVA Generators and Automatic Transfer Switches delivered to each site.
- b) Will provide assistance in load balancing on all residential mains switchboard

7.0 WORK STANDARDS AND QUALIFICATIONS: This Statement of Work requires the awarded contractor to provide technical qualified and licensed electrical technician and Certified CAT Service Technician to install and commission FOUR (4) new residential generators. The contractor shall furnish all tools, equipment and required Protective Personnel Equipment for their workers.

8.0 SECURITY REQUIREMENTS: Upon award of contract, the contractor must furnish details of all staff that will be onsite. The details will be inclusive of:

a) Full Name

b) Position

The US Embassy reserves the right to refuse entry to any or all contractor personnel. Each contractor personnel must have a valid identity card. Access to the residences will only be by prior, approved schedule and escort by US govt. representative.

9.0 **HOURS OF WORK:** The US Embassy normal working hours are Monday to Thursday 08.00 – 17.30hrs, Friday 08.00 – 15.00hrs No work will be allowed on Fiji and American Public Holidays. Follow the installation scheduled dates as shown in section 4.0.

10.0 **UTILITIES:** The contractor will have access to water and electricity on site.

11.0 **SAFETY:** Safety is the highest priority on this and all US Embassy contracts. The contractor shall direct all of those under his charge to work safely. The US Embassy reserves right to stop and/or remove from site contractor personnel who fail to comply with relevant OHS/OHSA requirements. The contractor shall ensure and maintain the site is clean and rubbish removed upon completion of installation and commissioning.

12.0 **REQUIREMENTS AND DELIVERABLES:**

- a) Provide Factory Start-up and Commissioning documents for each installed generator.
- b) Conduct a power transfer at each residence.
- c) Install generator and associated automatic transfer switch, balance load and test.
- d) To have the installation commission by a Caterpillar Generator Service Technician

13.0 **POINTS OF CONTACT:**

- A) The US Embassy point of contact for this solicitation package is Ellen Moses; Phone # 331-4466; Email: MosesEE@State.gov .
- B) The US Embassy point of contact for the coordination, implementation, and final acceptance of this project scope and work performed will be provided upon award.

End SOW